RADIO SERVICE BULLETIN

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ABBREVIATIONS.

The necessary corrections to the List of Radio Stations of the United States and to the International List of Radiotelegraph Stations, appearing in this bulletin under the heading "Alterations and corrections," are published after the stations affected in the following order:

Name =Name of station.
G. loc. =Geographical location: O=west longitude, N=north latitude, S=south latitude.
Call =Call letters assigned.
System =Radio system used and sparks per second.
Range =Normal range in nautical miles.
W. L. =Wave lengths assigned: Normal wave lengths in italics.
Service =Nature of service maintained:
PG=General public.
PR=Limited public.
P =Private.
O =Government business exclusively.
Hours =Hours of operation:
N =Continuous service.
X =No regular hours.
m =a. m. (12m=midday).
s =p. m. (12s =midnight).
Rates =Ship or coast charges in cents: c=cents. (The rates in the international list are given in francs and centimes.)
I. W. T. Co.=Independent Wireless Telegraph Co.
R. C. of A. =Radio Corporation of America.
S. O. R. S. =Ship Owners Radio Service.
Co. =Company.
Corp. =Corporation.
& =And.

36314—21——1

NEW STATIONS.

COMMERCIAL LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 30, 1920, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Station.	Call signal.	Wave lengths.	Service.	Hours.	Station controlled by—
Cleveland, Ohio [1]	KDPM	300, 330, 500, *600*.	P	X	Westinghouse Electric & Mfg. Co.
Detroit, Mich. [2]	KDPH	300, 400, *600*, 1625.	PR	X	Detroit-Edison Co.
East Moriches, N. Y. [3]	WBC	300, 450, *600*.....	PG	N	I. W. T. Co.
Port Huron, Mich. [4]	KDPJ	300, 400, 500, *600* 1625.	PR	X	Detroit-Edison Co.
Superior, Mich. [5]	KDPI	300, 500, *600*, 1625.	PR	X	Do.

[1] Loc. (approximately), 0 81° 44′ 00″, N. 41° 55′ 00″; system, continuous wave phone; range, 100; rates none. Wireless telephone station for inland communication only.
[2] Loc., 0 83° 03′ 40″, N. 42° 20′ 05″; range, 100; system, Deforest; rates, none. Wireless telephone station.
[3] Loc., 0 72° 46′ 05″, N. 40° 48′ 00″; range, 250; system, Marconi, 1000; rates, ship service 10 cents per word.
[4] Loc., 0 82° 25′ 33″, N. 42° 47′ 33″; range, 75; system, Deforest; rates, none. Wireless telephone station.
[5] Loc., 0 83° 38′ 27″, N. 42° 15′ 44″; range, 40; system, General Electric Co.; rates, none. Wireless telephone station.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Additions to the List of Radio Stations of the United States, edition of June 30, 1920, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Name of vessel.	Call signal.	Rates.		Service.	Hours.	Owner of vessel.	Station controlled by—
		North and South American service.	Transoceanic service.				
		Cents.	*Cents.*				
Agwistar	KDPO	.....	.....	PG	N	Atlantic, Gulf & West Indies Lines.	I. W. T. Co.
America	KDOW	4	4	PG	X	U. S. Mail S. S. Co.	R. C. of A.
Arden	KDPN	4	4	PG	X	U. S. S. B.	
Franklin	KDPK	.....	.....	PG	X	Galena Navigation Co.	
Gargoyle	KDPE	.....	.....	PG	X	Vacuum Oil Co.	
Granite State	KDOZ	4	4	PG	N	U. S. S. B.	
Independent	WPI	.....	.....	.....	.....	National Independent Fisheries Co.	
Kennecott	KDPP	.....	.....	.....	.....	.....	
Liebre	KDPG	.....	.....	PG	X	General Petroleum Corp.	
Livingstone	KDOY	.....	.....	PG	X	Tri-State S. S. Co.	Do.
Mauna Kea	KDPD	4	4	PG	X	Inter-Island Steam Navigation Co.	Do.
Pocahontas	KDOX	4	4	PG	.....	U. S. Mail S. S. Co.	Do.
Silver State	KDPA	4	4	PG	N	U. S. Shipping Board.	
Suspearco	KDPC	.....	.....	PG	X	Submarine Boat Corp.	Transmarine Corp.
Swiftstar	KDPF	4	4	PG	X	U. S. Shipping Board.	
Tuxpancil	KDPQ	.....	.....	PG	X	.....	
Walter Jennings	KDPL	.....	.....	PG	N	Standard Oil Co. of New Jersey.	

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

[b=ship station; c=land station.]

Call signal.	Name.		Call signal.	Name.	
KDOW	America	b	KDPI	Superior, Mich	c
KDOX	Pocahontas	b	KDPJ	Port Huron, Mich	c
KDOY	Livingstone	b	KDPK	Franklin	b
KDOZ	Granite State	b	KDPL	Walter Jennings	b
KDPA	Silver State	b	KDPM	Cleveland, Ohio	c
KDPC	Suspearco	b	KDPN	Arden	b
KDPD	Mauna Kea	b	KDPO	Agwistar	b
KDPE	Gargoyle	b	KDPP	Kennecott	b
KDPF	Swiftstar	b	KDPQ	Tuxpanol	b
KDPG	Liebre	b	WBC	East Moriches, N. Y	c
KDPH	Detroit, Mich	c	WPI	Independent	b

GOVERNMENT LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 30, 1920, and to the International List of Radiotelegraph Stations published by the Berne bureau.]

Station.	Call signal.	Station controlled by—
Fort Benjamin Harrison, Ind	WZAE	War Department.
Fort Howard, Md	WZAC	Do.
Fort Mason, Calif	WZAH	Do.
Fort McPherson, Ga	WZAD	Do.
Fort Omaha, Nebr	WZAG	Do.
Fort Sheridan, Ill	WZAF	Do.
Fort Wood, N. Y	WZAB	Do.
Minneapolis, Minn	KDPB	Post Office Department.

GOVERNMENT SHIP STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Additions to the List of Radio Stations of the United States, edition of June 30, 1920.]

Name of ship.	Call signal.	Name of ship.	Call signal.
Captain Clarence M. Condon	WYBY	Major Lester E. Moreton	WYBU
Capt. Edward P. Nones	WYBP	Major William P. Pence	WYBW
Captain Edwin C. Long	WYBO	Lieut. Harold G. Douglas	WYBQ
Captain Fred L. Perry	WYBN	Lt. Col. Herman C. Schumm	WYBS
Captain Samuel C. Cardwell	WYBM	Lt. Col. Robert C. Gildart	WYBR
Colonel Albert Todd	WYBI	Melvin	NURC
Col. Garland N. Whistler	WYBJ	Poe	WYBL
Colonel George F. E. Harrison	WYBE	V-1	NICQ
General Absalom Baird	WYBA	V-2	NICR
General J. Franklin Bell	WYBB	V-3	NICS
Col. John V. White	WYBK	V-4	NICT
General Edmund Kirby	WYBF	V-5	NICV
General John P. Story	WYBH	V-6	NICX
General Wallace F. Randolph	WYBG	V-7	NICZ
Major Albert G. Jenkins	WYBV	V-8	NIDD
Major Carl A. Lohr	WYBT	V-9	NIDJ
Major John W. McKie	WYBX		

GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

[b=ship station; c=land station.]

Call signal.	Name of station.		Call signal.	Name of station.	
KDPB	Minneapolis, Minn.	c	WYBW	Major William P. Pence	b
WYBA	General Absalom Baird	b	WYBX	Major John W. McKie	b
WYBG	General Wallace F. Randolph	b	WYBY	Captain Clarence M. Condon	b
WYBH	General John P. Story	b	WZAB	Fort Wood, N. Y.	c
WYBB	General J. Franklin Bell	b	WZAC	Fort Howard, Md.	c
WYBE	Colonel George F. E. Harrison	b	WZAD	Fort McPherson, Ga.	c
WYBF	General Edmund Kirby	b	WZAE	Fort Benjamin Harrison, Ind.	c
WYBI	Colonel Albert Todd	b	WZAF	Fort Sheridan, Ill.	c
WYBJ	Col. Garland N. Whistler	b	WZAG	Fort Omaha, Nebr.	c
WYBK	Col. John V. White	b	WZAH	Fort Mason, Calif.	c
WYBL	Poe	b	NICQ	V-1	b
WYBM	Capt. Samuel C. Cardwell	b	NICR	V-2	b
WYBN	Captain Fred L. Perry	b	NICS	V-3	b
WYBO	Captain Edwin C. Long	b	NICT	V-4	b
WYBP	Capt. Edward P. Nones	b	NICV	V-5	b
WYBQ	Lieut. Harold G. Douglas	b	NICX	V-6	b
WYBR	Lt. Col. Robert C. Gildart	b	NICZ	V-7	b
WYBS	Lt. Col. Herman C. Schumm	b	NIDD	V-8	b
WYBT	Major Carl A. Lohr	b	NIDJ	V-9	b
WYBU	Major Lester E. Moreton	b	NURC	Melvin	b
WYBV	Major Albert G. Jenkins	b			

ALTERATIONS AND CORRECTIONS.

COMMERCIAL LAND STATIONS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 30, 1920, and to the International List of Radiotelegraph Stations, published by the Berne bureau.]

CAMOTES, P. I.—Strike out all particulars.

NEW ORLEANS, LA.—System, composite, 1000; service, P, PR, and PG; rates, for PR service, without minimum:

	Per word.
All points in British Honduras	35c.
Bluefield, Nicaragua	45c.
Bocas del Toro, Panama	55c.
Burwood, La	10c.
All points in Costa Rica	50c.
Swan Island	25c.

NEW YORK, N. Y. (WSE).—Range, 300-400; system, Independent arc and composite, 1000; w. l., 300, 450, *600*, 1800.

SIASCONSET, MASS.—Rate, 10 c per word, which includes both station rate and the cable connecting the main land.

COMMERCIAL SHIP STATIONS, ALPHABETICALLY BY NAME OF VESSELS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 30, 1920, and to the International List of Radiotelegraph Stations, published by the Berne bureau.]

A. A. DAUGHERTY.—Range, 150; system, Cutting & Washington, 1000; w. l., 300, 450, *600;* rate, 8 c per word for all classes of service; station operated and controlled by Cutting & Washington Radio Corp.

ADMIRAL SCHLEY.—Range, 150; system, Marconi, 1000.

AEOLUS.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, *600*.

ANGELES.—Correct name *The Angeles*.

ANN ARBOR No. 4.—Range, 150; system, Marconi, 1000.

BELLA.—Range, 200; system, Marconi, 120; w. l., 300, *600;* service, PG; hours, X; Bella S. S. Co. owner of vessel; station operated and controlled by owner of vessel; rate 4 c per word for all classes of service.

BIDWELL.—Range, 100-1000; system, Federal arc; w. l., 300, 450, *600*, 1800.

CARLTON.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, *600*.

CHARLES H. CRAMP.—Range, 500; system, Federal arc; w. l., 300, *600*, 1800; hours, X.

CHARLIE WATSON.—Range, 300; system, Marconi, 1000; w. l., 300, 450, *600;* rates, 4 c per word for all classes of service; station operated and controlled by R. C. of A

CHESTER KIWANIS.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, *600*.
CHINA ARROW.—Range, 300; system, Marconi, 1000; w. l., 300, *600;* hours, X station operated and controlled by R. C. of A.
CITY OF RENO.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, *600*.
CITY OF WEATHERFORD.—Range, 300; system, Navy-Lowenstein, 1000; w. l., 300, 450, *600*.
COLLINGSWORTH.—Range, 300; system, Wireless Specialty Apparatus Co., 1000; w. l., 300, 450, *600*.
CONCORD.—Range, 75; system, International Radio Telegraph Co.
CONEHATTA.—Range, 300; system, Navy-Wireless Specialty Apparatus Co., 1000; w. l., 300, 450, *600*.
COOLCHA.—Anglo-California Trust Co. owner of vessel.
COSKATA.—Range, 300; system, Navy-Wireless Improvement Co.; w. l., 300, 450, *600*.
CRAMPTON ANDERSON.—Range, 300; system, R. C. of A., 1000; w. l., 300, 450, *600;* rate, 4 c per word for all classes of service; station operated and controlled by R. C. of A.
CREOLE STATE.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, *600*.
CUYAMACA.—Range, 200; system, Kilbourne & Clark, 1000; w. l., 300, 450, *600*.
DERBLAY.—Range, 200; system, Navy-Simon, 1000; w. l., 300, 450, *600*.
DULCINO.—Range, 150; system, Marconi, 1000; w. l., 300, 450, *600*.
EAST CAPE.—System, Navy-Wireless Specialty Apparatus Co., w. l., 300, *450*, 600; hours, X.
EAST HAMPTON.—Range, 150; system, Navy-Simon, 1000; w. l., 300, 450, *600;* service, PR, hours, X; rates, none.
E. J. EARLING.—Range, 150.
EL ISLEO.—Station operated and controlled by owner of vessel.
ETHAN ALLEN.—Range, 100–1000; system, Federal arc; w. l., 300, *600*, 800; hours, N.
FIRTHCLIFFE.—Hours, X.
F. J. LUCKENBACH.—W. l., 300, 450, *600*.
FREEPORT SULPHUR No. 6.—Range, 300; system, Marconi, 1000; w. l., 300, 450, *600*.
FRIEDA.—Range, 300; w. l., 300, 450, *600;* rates, 4 c per word for all classes of service.
GARGOYLE.—Name changed to OSWEGO.
GEORGE E. WEED.—Range, 300; system, Federal arc, w. l., 300, *600*, 1800.
GOLDEN STATE.—Range, 150–1500; system, Navy-Simon, 1000, and Federal arc; w. l., 300, 450, 600, *1800*.
GOLD STAR.—Range, 100–1000; system, Federal arc; w. l., 300, 450, *600*, 1800.
GULF COAST.—Range, 150; system, Marconi, 480.
HAGAN.—Range, 300; system, Navy-Wireless Specialty Apparatus Co., 1000.
HANLEY.—Range, 500; system, Federal arc; w. l., 300, 600, *1800*.
HASLEHURST.—Range, 300; system, Navy-Liberty, 1000; w. l., 300, 450, *600*.
HAWKEYE STATE.—Range, 150–1000; system, Navy-Simon, 1000, and Federal arc; w. l., 300, 450, *600*, 1800.
HEBER.—Range, 300; system, Federal arc; w. l., 300, *600*.
HELEN.—Range, 300; system, I. W. T. Co. arc.
HICKMAN.—Range, 300; system, Navy, 1000; w. l., 300, 450, *600;* hours, N.
INDEPENDENT BRIDGE—Range, 300; system, Navy, 1000; w. l., 300, *600*.
INDIA ARROW.—Hours, N.
JAMES OTIS.—Range, 100–1000; system, Federal arc; w. l., 300, 600, *1800*.
JOHN ENGLIS.—Range, 100–1000; system, Federal arc; w. l., 300, 450, *600*, 1800.
JOHN STEVENS.—Range, 700; system, Federal arc, w. l., 300, *600*, 1800.
JOHN WORTHINGTON.—Standard Oil Co. of New Jersey owner of vessel.
KINGFISHER (KDNJ).—System, I. W. T. Co., Andrew Hudson owner of vessel; station operated and controlled by I. W. T. Co.
KVICHAK.—Range, 200; rates, transoceanic service 8 c per word.
LAKE FLORAVISTA.—System, Navy-International Radio Telegraph Co., 1000; w. l., 300, 450, *600*.
LANCASTER.—System, Navy-Marconi, 1000; hours, X.
LEXINGTON.—Range, 75; system, International Radio Telegraph Co.
MARINERS HARBOR.—System, Navy, 1000.
MARQUETTE and BESSEMER No. 2.—Range, 200; w. l., 300, 450, *600*; service, PG.
MARY LUCKENBACH.—Range, 300; system, Marconi, 1000; w. l., 300, *600;* rates, 4 c per word for all classes of service; station operated and controlled by R. C. of A.
MAZATLAN.—System, Marconi, 1000; w. l., 300, 450, *600*.
MERCER.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, *600*.
MERRY MOUNT.—Range, 300; system, Navy, 1000; w. l., 300, 450, *600*.
MINNESOTA (WEK).—George S. Bennett owner of vessel.
MONO.—System, Navy, 1000.

MUNAMAR.—Range, 300; system, R. C. of A., 1000.
MUNDALE.—Range, 150.
MUNDELTA.—Range, 300; w. l., 300, 450, *600*.
NEW HAMPSHIRE.—Range, 75; system, International Radio Telegraph Co., 260.
NORTHLAND (WGJ).—Rates, all classes of service, 4 c per word.
OSSA.—System, Navy, 1000.
OUTAGAMIE.—Standard Oil Co. owner of vessel.
PEQUONNOCK.—Range, 75; system, International Radio Telegraph Co., 260.
PHILIP PUBLICKER.—Publicker Shipping Co. owner of vessel.
P. J. REILLY.—Range, 150; system, Cutting & Washington, 1000; w. l., 300, 450, 600; rates, North and South American service, 4 c per word; station operated and controlled by Cutting & Washington Radio Corp.
PLYMOUTH (KXH).—Range, 75; system, International Radio Telegraph Co.
POINT ADAMS.—Station operated and controlled by Federal Telegraph Co.
POINT BONITA.—Range, 200; system, Kilbourne & Clark, 1000.
POZNAM.—Range, 150; w. l., 300, 450, *600*.
PROVIDENCE.—Range, 75; system, International Radio Telegraph Co., 260.
PURITAN.—Range, 150; system, Marconi, 1000.
QUILLWARK.—Range, 300; system, Marconi, 1000; w. l., 300, 450, *600*.
RAINIER.—Atlas S. S. Co. owner of vessel.
ROCKAWAY PARK.—System, Navy-Wireless Specialty Apparatus Co., 1000; hours, X.
ROYAL ARROW.—Hours, X.
SAN FRANCISCO.—Range, 300; w. l., 300, 450, *600*.
S. C. T. DODD.—Range, 300; system, Marconi, 1000; w. l., 300, *600;* station operated and controlled by R. C. of A.
SENATOR BAILEY.—System, I. W. T. Co., w. l., 300, *600*.
S. O. Co. No. 91.—Range, 150.
SOCONY 94.—Range, 150.
SPOKANE.—System, Marconi, 1000; w. l., 300, 450, *600*.
STANDTOW No. 1.—Range, 150.
STEEL RANGER.—Range, 300; system, Marconi, 1000; w. l., 300, 450, *600;* hours, X.
SUDAWSONCO.—Range, 300; system, Navy, 1000; w. l., 300, 450, *600*; rates, all classes of service 4 c per word; station operated and controlled by Transmarine Corp.
SUDBURY.—Range, 300; system, Marconi, 1000.
SULANIERCO.—Range, 300; system, Navy, 1000; w. l., 300, 450, *600*; station operated and controlled by Transmarine Corp.
SUSCOLANCO.—Range, 300; system, Navy, 1000; w. l., 300, 450, *600;* rates, all classes of service 4 c per word; station operated and controlled by Transmarine Corp.
TOLOSA.—Range, 300; system, Navy, 1000; w. l., 300, *600*.
TUSCALOOSA CITY.—Range, 300; system, Marconi, 1000; w. l., 300, *600;* hours, X; station operated and controlled by R. C. of A.
WESTERN PLAINS.—System, Navy; 1000; w. l., 300, 450, *600*.
WOLVERINE STATE.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, *600;* station operated and controlled by R. C. of A.
YAPALAGA.—Range, 300; system, Navy-Marconi, 1000; w. l., 300, 450, *600*.

The stations of the following-named vessels are operated and controlled by the Independent Wireless Telegraph Co.:

Everglades.	Lake Clear.	Vanada.
Gulfking.	Potter.	Yorba Linda.
Heffron.	Storm King.	York Harbor.

The stations of the following-named vessels are operated and controlled by the Shipowners' Radio Service:

District of Columbia.	Naamhok.	West Apaum.
Golden State.	Nacata.	West Cussets.
Hawkeye State.	Namasket.	West Notus.
James Otis.	Warwick.	

The stations of the following-named vessels are operated and controlled by the Radio Corporation of America:

Gdansk.	Storm King.	Terre Haute.

Strike out all particulars of the following-named vessel:

City of Topeka.

COMMERCIAL LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

KRK, *read* Oswego; KUJB, *read* The Angeles; WIE, *read* Edward L. Doheny; WIF, *read* Herbert G. Wylie. Strike out all particulars following the call signals KDMW and WGY.

GOVERNMENT LAND STATIONS, ALPHABETICALLY BY NAMES OF STATIONS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 30, 1920.]

BEAUFORT, N. C.—*Read* Moorehead City, N. C.
BOSTON, MASS.—Call signal changed to WZAA.
TAMPA, FLA.—*Read* St. Petersburg, Fla.

Strike out all particulars of the following named stations:

Anderson (permanently moored vessel at Fortress Monroe).
Buckroe (permanently moored vessel at Fortress Monroe).
FORT WOOD, N. Y.
HILLCREST, CALIF.

GOVERNMENT SHIP STATIONS, ALPHABETICALLY BY NAMES OF VESSELS.

[Alterations and corrections to be made to the List of Radio Stations of the United States, edition of June 30, 1920.]

CYRUS W. FIELD.—Call signal changed to WYBC.
FAHRENHOLT.—Correct name Farenholt.
GENERAL WILLIAM M. GRAHAM.—Call signal changed to WYBD.

Strike out all particulars of the following-named vessels:

Favorite.
Gypsum Queen.
Nopatin.
Samar.
S. C. 289.
S. P. 156 (Winchester).
Sylvia.
U-111.
U-117.
U-148.
U-B-88.
U-C-97.
W. A. Edwards.
W. J. Courtney.

GOVERNMENT LAND AND SHIP STATIONS, ALPHABETICALLY BY CALL SIGNALS.

NAN, *read* Moorehead City, N. C.; NECK, *read* Farenholt; NGL, *read* St. Petersburg, Fla.; WEY, *read* WYBD; WXH, *read* WZAA; WXS, *read* WYBC. Strike out all particulars, NAJN, NAKC, NAMQ, NARQ, NCJ, NDT, NEQP, NERD, NESD, NEVG, NEXK, NLX, NOSS, NPG, NUKS, WUM, WZL, WZM.

MISCELLANEOUS.

CHANGE IN THE METHOD OF LICENSING COMMERCIAL RADIO OPERATORS AS APPROVED BY HON. J. W. ALEXANDER, SECRETARY OF COMMERCE, FEBRUARY 12, 1921.

Licenses to radio operators after June 30, 1921, will certify to—first, efficiency in radio communication (class); second, duration and quality of service (grade).

EFFICIENCY.

The standards of efficiency established by international conventions are as follows:

First class (Article X, Radio Convention 1912).—(*a*) Adjustment of the apparatus and knowledge of its functioning.

(*b*) Transmission and acoustic reception at the rate of not less than 20 words a minute.

(*c*) Knowledge of the regulations governing the exchange of radio correspondence.

Second class (Article X, Radio Convention, 1912).—Ability to transmit and receive at a rate of only 12 to 19 words a minute but who, in other respects, fulfill the requirements mentioned above.

Watchers' class (Article XXXV, Safety at Sea Convention, 1914).—Ability to receive and understand the radiotelegraph distress signal and the safety signal.

Extra first class.—In addition to these the Department of Commerce will continue the issue of licenses certifying to—

(*a*) Adjustment of the apparatus and knowledge of its functioning.

(*b*) Transmission and acoustic reception at the rate of not less than 30 words per minute, Continental Morse, and 25 words per minute, American Morse (five letters to the word).

(*c*) Knowledge of the regulations governing the exchange of radio correspondence which will be designated commercial extra first class.

SERVICE.

Hitherto the duration and quality of service has been shown by the indorsements on the license of the operator. These indorsements will be made as heretofore, and license of the several classes above enumerated will be graded also as follows:

Third grade.—Less than 6 months satisfactory commercial service and a speed of 12 words a minute.

Second grade.—Six months or more satisfactory commercial service in the third grade and a speed of 20 words a minute.

First grade.—A year or more satisfactory commercial service in the second grade and a speed of 25 words a minute.

Satisfactory service as an operator in any branch of the Federal service shall be deemed equivalent to like commercial service.

OUTSTANDING LICENSES.

Outstanding licenses will be valid until they expire when the renewal will show the grade to which the operator is entitled.

CHANGE IN RATES FOR BELGIAN CONGO.

The charges in part 3 of the nomenclature, applicable to radiotelegrams originating in or intended for Belgian Congo and exchanged directly with the coast stations of that country, have been modified as follows:

	Radiotelegrams.	
	Ordinary.	Urgent.
A—Offices served by land lines: Bolobo, Boma, Coquilhatville, Gombe, Kinshasa, Kwamouth, Leopoldville, Lukolela, Lukula, Madimba, Matdi, Thysville.	0.30 fr. per word...	0.60 fr. per word.
B—Other offices.....	0.50 fr. per word...	1 fr. per word.

CHANGE IN RATES FOR DUTCH EAST INDIES.

The coast stations of Balikpapan and Tarakan radio are now open to general public service.

Beginning February 1, the charge for radiotelegraphic coast stations in the Dutch East Indies, with the exception of Soerabaja, is 0.80 franc per word, with a minimum charge of 8 francs per radiotelegram.

Finally, the table of inland charges of the Dutch East Indies figuring in part 3 of the nomenclature is to be completed in the following manner:

	Radiotelegrams.	
	Ordinary.	Urgent.
F and G—Radiotelegrams transmitted by the Balikpapan and Tarakan radio coast stations and originating at or intended for the following offices:		
Balikpapan	0.20 fr. per word, minimum 1 fr.	0.60 fr. per word, minimum 3 fr.
Amoentai, Bandjermasin, Hajoep, Kotaboroe, Poeloe Laoet, Pegatan, Samarinda, Stagen, and Tanah Grogot.	0.40 fr. per word, minimum 2 fr.	1.20 fr. per word, minimum 6 fr.
All other offices	0.80 fr. per word, minimum 4 fr.	2.40 fr. per word, minimum 12 fr.

CHANGE IN RATES FOR ITALY.

Beginning February 1, the charge of the Italian radiotelegraphic coast stations is raised from 0 franc 30 per word to 0 franc 60 per word.

Beginning the same date, the charges indicated in part 3 of the nomenclature, applicable to the ordinary radiotelegrams originating at or intended for Italy and exchanged directly with the coast stations of Italy are as follows:

Ordinary radiotelegrams.—0 franc 25 per word, with a minimum charge per radiotelegram of 2 francs.

Urgent radiotelegrams.—0 franc 75 per word, with a minimum charge of 6 francs per radiotelegram.

SPECIAL CALL SIGNALS.

The call signal KSBV has been assigned as a general call for all United States Shipping Board vessels, and call signal KSOC has been assigned as a general call for all vessels owned by the Standard Oil Co. of New Jersey.

OPERATORS REQUESTED TO REPORT WEATHER CONDITIONS.

The cooperation of naval and merchant vessels is requested in furnishing certain information in regard to weather conditions in the vicinity of the United States naval air station, Coco Solo, Panama, Canal Zone, which information is desired for the protection of aviators flying from that station, especially in view of the many long-distance flights undertaken in that vicinity.

With this purpose in view it is requested that every vessel within radio touch of either "Radio Colon" or "Radio Balboa" will forward

via either one of the foregoing radio stations, to "Radio Coco Solo," at 7 a. m. and 4 p. m., seventy-fifth meridian mean time, her position (latitude and longitude), local barometric pressure, local temperature, local wind velocity and direction, state of sea, and kind and quantity of clouds.—From *Hydrographic Bulletin, Feb. 2, 1921.*

CAPE MAY RADIO (COMPASS) STATION RELOCATED.

The United States radio compass station at Cape May, N. J., will be relocated in latitude 38° 56′ N., longitude 74° 54′ 34″ W., and bearings will be transmitted from this new location beginning March 1, this year.—From *Hydrographic Bulletin, Feb. 16, 1921.*

INTERNATIONAL ICE OBSERVATION AND ICE PATROL SERVICE.

For the purpose of carrying on the International Ice Observation and Ice Patrol Service provided for by the International Convention for the Safety of Life at Sea, London, 1913–14, the U. S. Coast Guard cutter *Seneca* has been detailed for this service and will leave New York about February 15, proceeding to the Grand Banks of Newfoundland to locate the ice fields and positions of the icebergs; keeping in touch with the situation; making such observations as practicable on the quantities of ice, its kind, extent, and drift; and obtain any other information that may seem to be of value.

The object of the patrol is primarily to ascertain the location and progressive movement of the limiting lines of the regions in which icebergs and field ice exist in the vicinity of the Grand Banks of Newfoundland and the dissemination of the information so ascertained for the guidance and warning of navigators, and coordinately with these primary duties, in making oceanographical and meteorological observations as will form a contribution toward the knowledge of the causes why the limiting lines assume their observed locations.

During the period of ice observations the *Seneca* will be the only vessel employed on this duty, but when the ice has moved southward so as to make a constant patrol necessary, an additional vessel will be detailed for that purpose. The experience of previous years has shown that a continuous ice patrol should be established about April 1 and should continue throughout the season of dangerous ice conditions.

Upon getting in touch with the ice the *Seneca* will send a report daily to the Branch Hydrographic Office, New York City, at 4 a. m., seventy-fifth meridian time, addressed "Hydrographic, New York." An endeavor will be made to communicate the message direct to coast radio stations. If unable to communicate with any of these stations the message will be relayed through any vessel within reach.

The ice information will be given in as plain and concise English as practicable, and will state the following:

(*a*) Ice (berg or field).
(*b*) Date.
(*c*) Time (seventy-fifth meridian).
(*d*) Latitude.
(*e*) Longitude.
(*f*) Other data as may be necessary.

While on this duty the patrol vessel will endeavor by means of daily radio messages to keep ships at sea advised of the limits of the ice fields, etc.

The *Seneca's* radio call letters are NRE. She will use a wave of 600 meters when communicating with passing vessels.

The radio messages from the patrol ships will be given publicity immediately upon their receipt by the Branch Hydrographic Office, New York, and by the Hydrographic Office, Washington, D. C.—From *Hydrographic Bulletin, Feb. 16, 1921.*

FADING TESTS DISCONTINUED.

The fading tests conducted by the Bureau of Standards having been completed, the special wave lengths assigned to amateur stations engaged in the test are withdrawn and their use must be discontinued.

OPERATOR'S LICENSE SUSPENDED.

First-grade license, No. 15588, issued at Norfolk, Va., September 26, 1919, has been suspended for a period of three months on account of the holder of the license violating Article VI of the International Convention, in that he caused superfluous signals to be transmitted.

LOST COMMERCIAL RADIO OPERATORS' LICENSES.

Printed below is a list of radio operators' licenses which have been reported to this Bureau as having been lost. Should any of them be found, they should be returned to the Bureau for cancellation. Inspectors and others concerned should see that lost licenses are not being used by unauthorized persons.

Name.	Grade.	Number.	Date issued.	Port issued.
Abbott, J. Marroun	First	18259	Oct. 30, 1918	New York.
Bandettini, Attilo	do	17144	Feb. 2, 1920	Chicago.
Baron, Morris	do	20776	May 3, 1920	New York.
Berkowitz, A. C	do	22144	Aug. 4, 1920	Baltimore.
Brinsmade, Allan C	do	16254	Oct. 18, 1918	New Orleans.
Butler, Ralph E	Second	14134	Dec. 12, 1919	Seattle.
Cooper, Eldon D	First	19187	Oct. 2, 1919	New York.
Corbett, Raymond A	do	22143	Aug. 4, 1920	Baltimore.
Dale, Henry P	do	17891	July 14, 1919	New York.
Hopkins, F. M	do	13378	Aug. 12, 1919	Balboa.
Horstmeyer, D. W	do	16869	June 12, 1919	San Francisco.
Hunt, John W	do	19047	Sept. 4, 1919	New York.
Kane, J. E	do	13093	Sept. 15, 1919	New Orleans.
Marsano, Ronald W. S	do	21964	May 10, 1920	Baltimore.
Mizel, Julius	do	19936	Jan. 17, 1920	Do.
Mullen, Rupert	do	17300	May 1, 1920	Cleveland.
Mulvihill, John L	Second	15773	Jan. 10, 1920	New York.
Patton, Archie F	First	22231	Nov. 20, 1920	Baltimore.
Shapiro, Geo. J	do	19502	Aug. 19, 1919	Do.
Sherlog, John L	do	19364	Jan. 15, 1920	New York.
Tong, Myron A	do	18468	Apr. 14, 1919	Do.
Tyler, Edmond B	do	23457	May 19, 1920	Do.
Walsh, Thos. F	do	21861	Mar. 25, 1920	New Orleans.

HEADQUARTERS PORT OF EIGHTH DISTRICT CHANGED.

The headquarters port of the eighth radio district has been changed from Cleveland, Ohio, to Detroit, Mich. This change should be made in the "Radio Communication Laws of the United States." All communications for the radio inspector in this district should be addressed to the Federal Building, Detroit, Mich.

DESIGNATING LETTER ASSIGNED TO FEDERAL TELEGRAPH CO.

Referring to the list of companies and the designating letters assigned to them which appeared in Radio Service Bulletin No. 45 the Federal Telegraph Company should be added to the list as having designating letter "F."

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